ORDER NO. AD8904098C8

Service Manual

Amplifier

SU-A40

Stereo Control Amplifier

Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EB)	Great Britain.	(K)
(EG)	F.R. Germany and Italy.	(K)
(GC)	Third Region.	(K)
(GL)	Australia.	(K)

SPECIFICATIONS (DIN 45 500)

■ PRE AMP. SECTION

Input sensitivity and impedance
- **PHONO MM** 2.5mV/47kΩ
- **PHONO MC** 170μV/220Ω
- **TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT** 150mV/18kΩ

PHONO maximum input voltage (IHF '66, 1kHz, RMS)
- **MM** 170mV
- **MC** 13mV

S/N
- **PHONO MM** 79dB (88dB, IHF, A)
- **PHONO MC** 70dB (72dB, 250μV, IHF, A)
- **TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT** 92dB (IHF, A: 106dB)

Frequency response
- **PHONO MM** RIAA standard curve ±0.2dB (20Hz~20kHz)
- **TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT** 0.8Hz~150kHz (−3dB) +0, −0.1dB (20Hz~20kHz)

Tone controls
- **BASS** 50Hz, +10dB, −10dB
- **TREBLE** 20kHz, +10dB, −10dB

Subsonic filter 20Hz, −6dB/oct.

Loudness control (volume at −30dB) 50Hz, +9dB

Muting −20dB

Output voltage and impedance
- **PRE OUT** rated 1V, max. 8V
- **TAPE 1, TAPE 2/DAT, TAPE 3/EXT REC OUT** 150mV

Channel balance, AUX 250Hz~6,300Hz ±1dB

Channel separation, AUX 1kHz 55dB

Total harmonic distortion (20Hz~20kHz)
- **PHONO MM** 0.002%
- **PHONO MC** 0.003%
- **TUNER, CD, AUX, TAPE 1, TAPE 2/DAT, TAPE 3/EXT (Vol. max.)** 0.002%

■ GENERAL

Power consumption 8 W

Power supply
- **For Continental Europe and F.R. Germany** AC 50Hz/60Hz, 220V
- **For Great Britain, Australia and others** AC 50Hz/60Hz, 110V/127V/220V/240V

Dimensions (W × H × D) 430 × 103 × 290mm (16-15/16″ × 4-1/16″ × 11-6/16″)

Weight 4.0kg (8.8lb.)

Notes:
1. Specifications are subject to change without notice for further improvement.
   Weight and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

Technics

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Central P.O. Box 288, Osaka 530-91, Japan

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■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5W resistor connect both ends of power supply capacitors (C501, C502, 3300μF) in order to discharge the voltage.

(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50Hz/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110V/127V/220V/240V.

Power supply voltage	AC110V	AC127V	AC220V	AC240V
Consumed current 50Hz	33~132mA	29~118mA	17~66mA	16~62mA
Consumed current 60Hz	30~120mA	27~110mA	15~60mA	14~56mA

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

* No sound is heard when the power is switched ON.
* Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted",or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

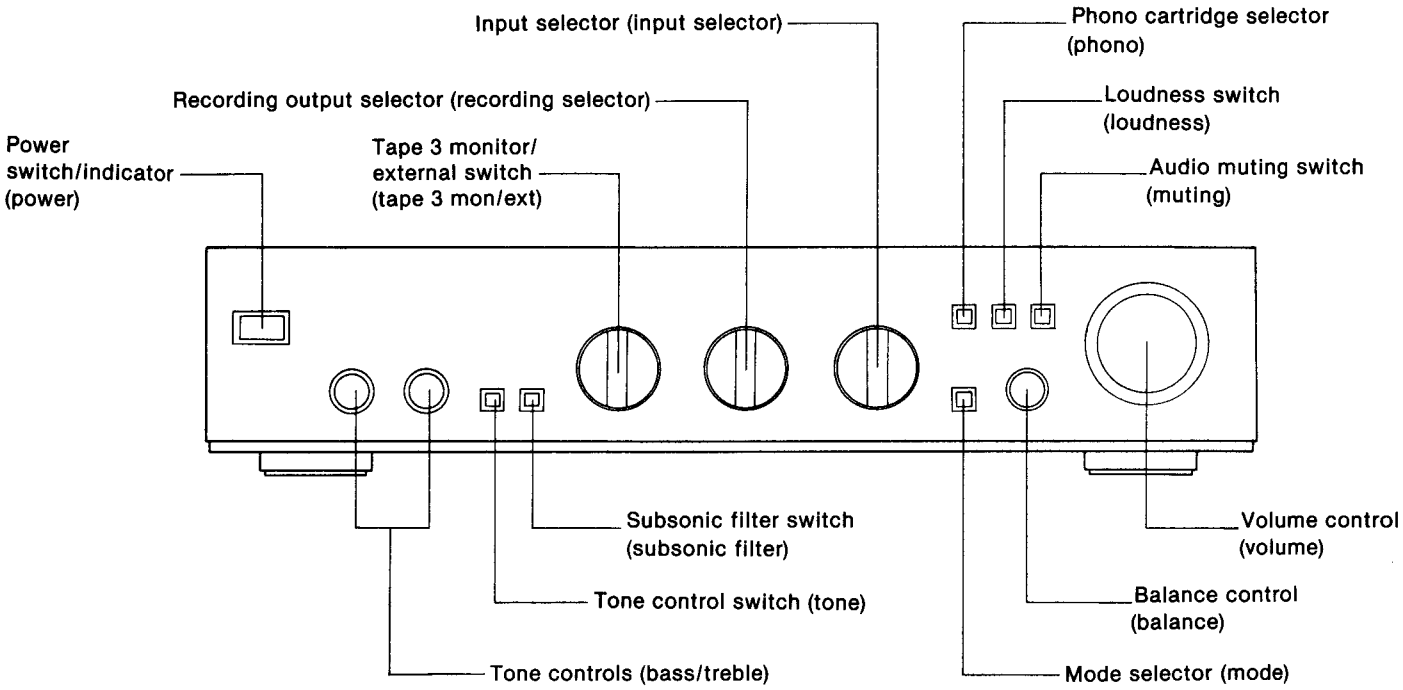
Note:

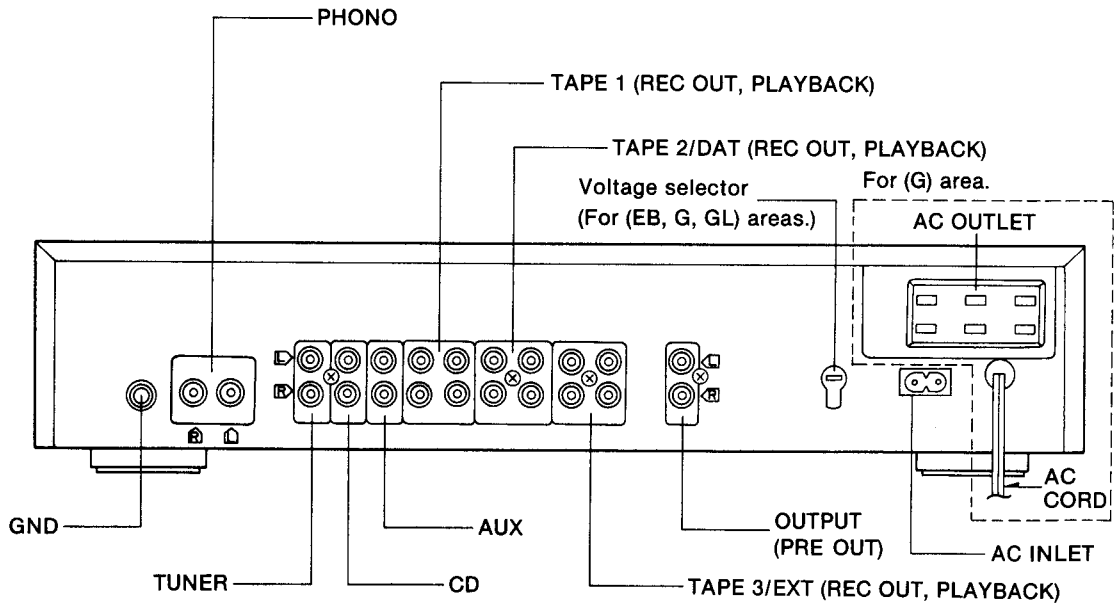
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

■ ACCESSORIES

- Stereo connection cable 1
  (SJPD18)
- AC power supply cord 1
  SJA193 ..... (EB)
  SJA173 ..... (GL)
  SFDAC05E03 .... (E), (EG)

■ LOCATION OF CONTROLS

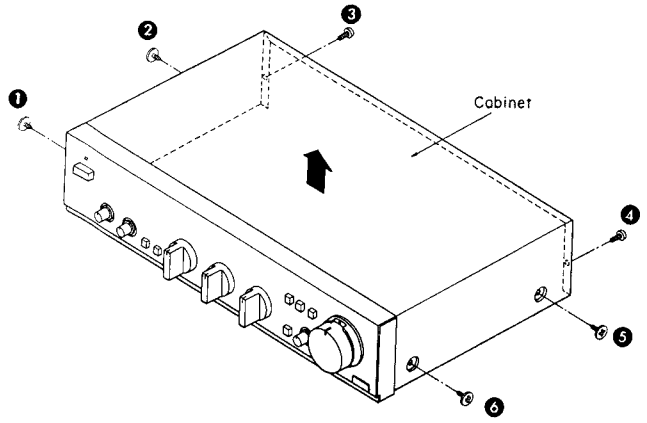

Input selector (input selector)
Phono cartridge selector (phono)
Recording output selector (recording selector)
Loudness switch (loudness)
Power switch/indicator (power)
Tape 3 monitor/ external switch (tape 3 mon/ext)
Audio muting switch (muting)
Subsonic filter switch (subsonic filter)
Volume control (volume)
Tone control switch (tone)
Balance control (balance)
Tone controls (bass/treble)
Mode selector (mode)



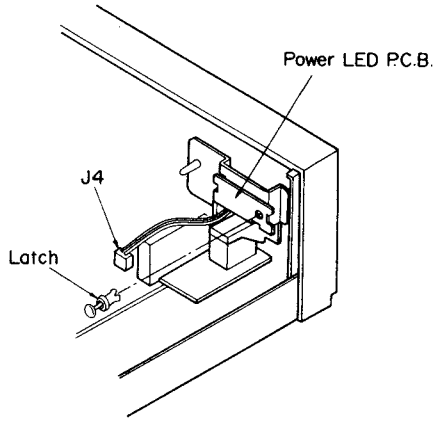
Note: Phono input capacitance is about 250pF (EG area only)
Phono input capacitance is about 150pF (Other area)

■ DISASSEMBLY INSTRUCTIONS

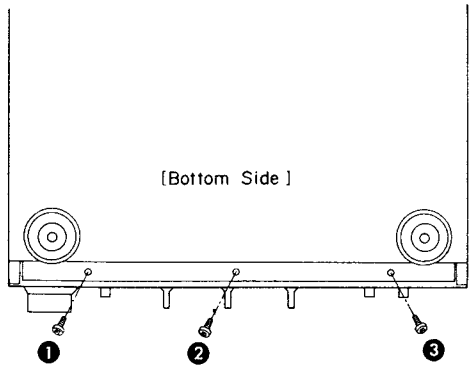
Ref. No. 1	Removal of the cabinet
Procedure 1	• Remove the 6 screws (❶~❻).



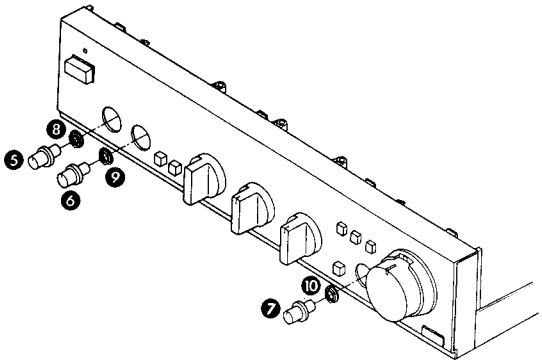
Ref. No. 2	Removal of the power LED P.C.B.
Procedure 1→2	1. Remove the latch. 2. Remove the 1 connector (J4).

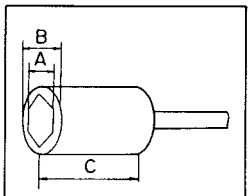


Ref. No. 3	Removal of the front panel
Procedure 1→3	1. Remove the 3 screws (❶~❸).



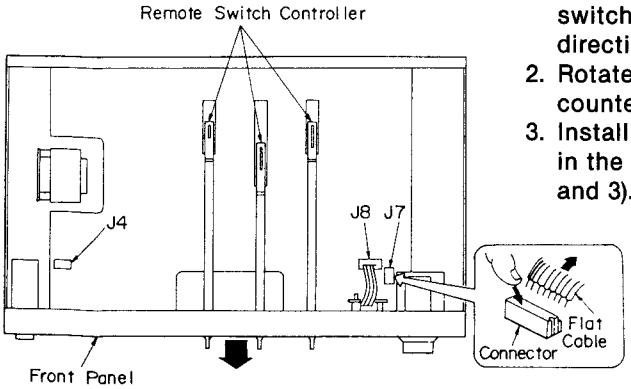
2. Pull out the 3 knobs (❺~❼).
3. Remove the 3 nuts (❽~❿).





A: 11mm
B: 16mm
C: longer than 18mm
• Use a wrench of the dimensions shown in the illustration above to remove nuts.

4. Remove the 1 connector (J4).
5. Remove the 2 flat cables (J7, J8).
6. Remove the remote switch controller.



How to remove the remote switch controller

• Pull up the remote switch controller in the direction of the arrow as shown in figure 1 and then remove it.

How to replace the remote switch controller

1. Push the switch contact (on remote switch S201, S203 or S202) in the direction of the arrow (see Fig. 2).
2. Rotate the selector knob counterclockwise.
3. Install the remote switch controller in the remote switch (see Figs. 2 and 3).

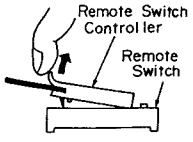


Fig.1

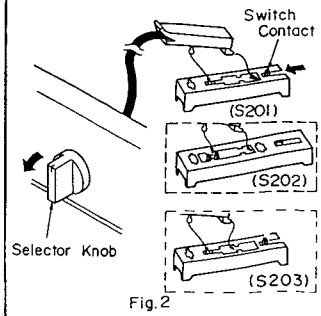


Fig.2

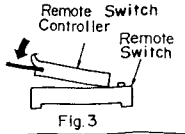
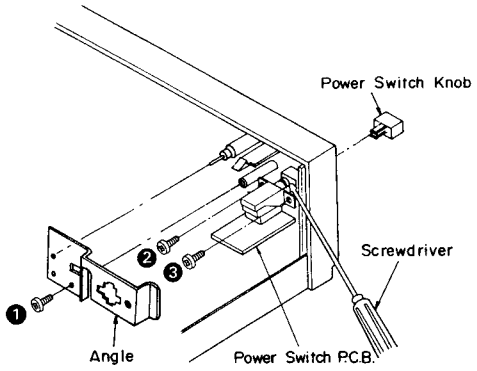
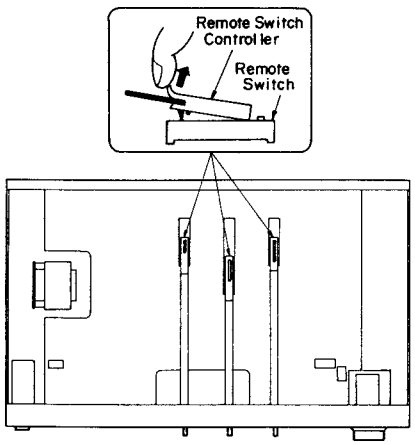


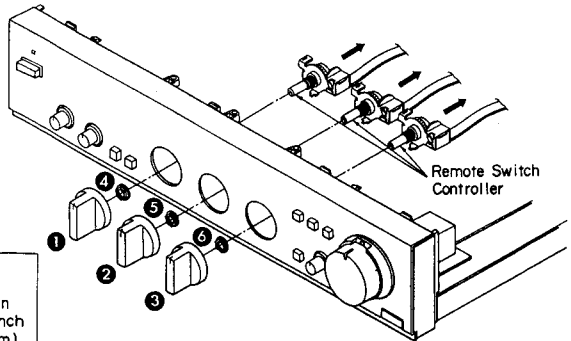
Fig.3

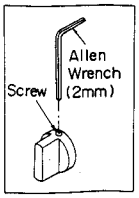
Ref. No. 4	Removal of the power switch P.C.B.
Procedure 1→2→4	1. Remove the 1 screw (❶). 2. Remove the angle. 3. Remove the power switch knob by pushing it from behind the front panel. 4. Remove the 2 screws (❷, ❸).



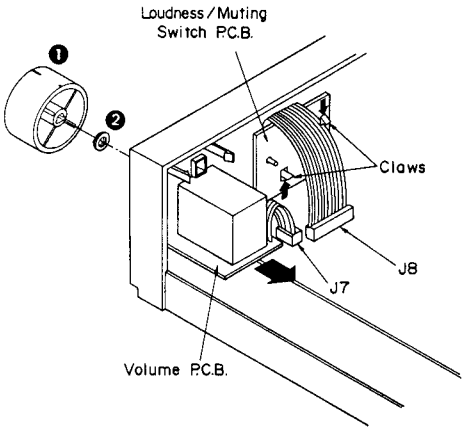
Ref. No. 6	Removal of the remote switch controller
Procedure 1→6	1. Remove the remote switch controller. 2. Loosen the screws set in the selector dials by using a allen wrench and remove the 3 selector dials (❶~❸). 3. Remove the 3 nuts (❹~❻). 4. Remove the remote switch controller in the direction of the arrow.



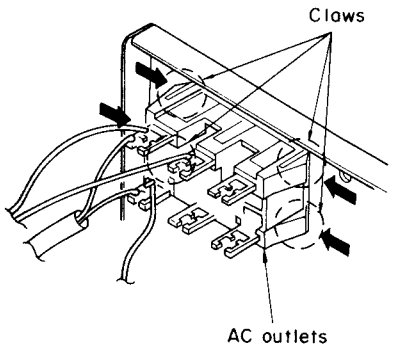




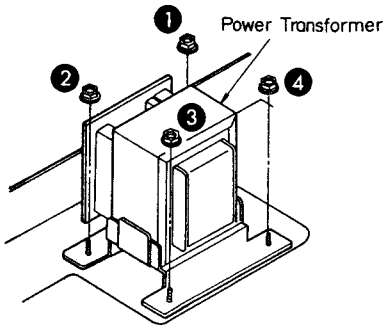
Ref. No. 5	Removal of the volume P.C.B. and loudness/muting switch P.C.B.
Procedure 1→5	• Removal of the volume P.C.B. 1. Remove the 1 flat cable (J7). 2. Pull out the knob (❶). 3. Remove the nut (❷). • Removal of the loudness/muting switch P.C.B. 1. Remove the 1 flat cable (J8). 2. Release the 2 claws.



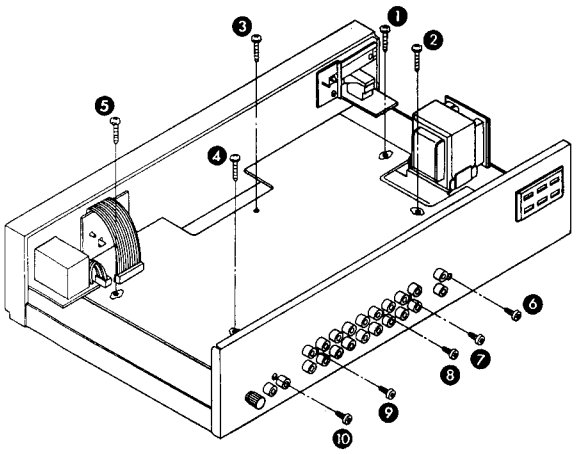
Ref. No. 7	Removal of the AC outlets
Procedure 1→7	• Push the 4 claws.

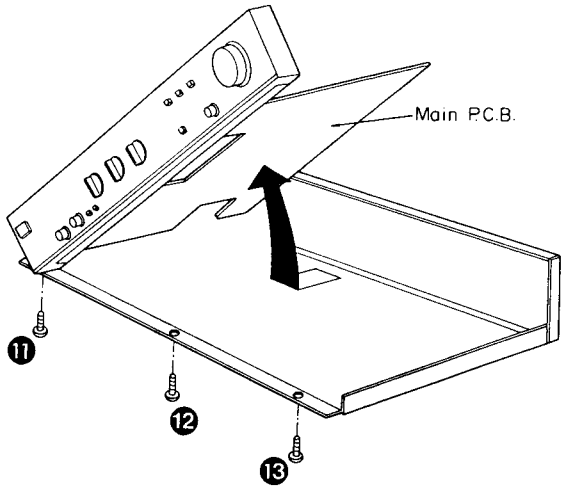


Ref. No. 8	Removal of the power transformer
Procedure 1→8	• Remove the 4 nuts (❶~❹).



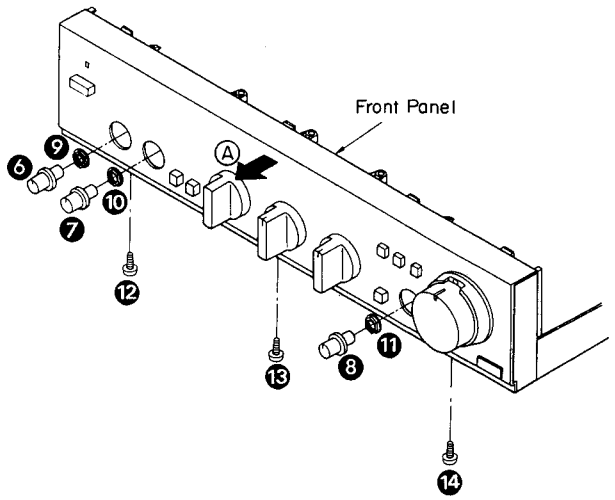
Ref. No. 9	**Removal of the main P.C.B.**
Procedure 1→9	1. Remove the 13 screws (❶~⓭). 2. Remove the main P.C.B. in the direction of the arrow.

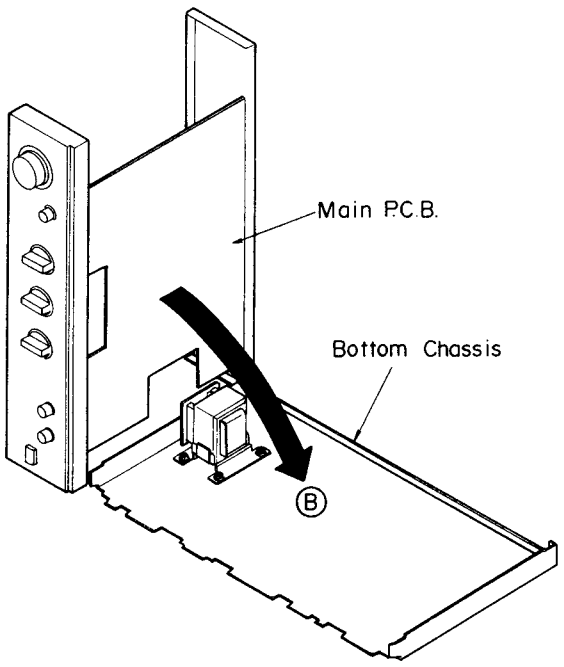


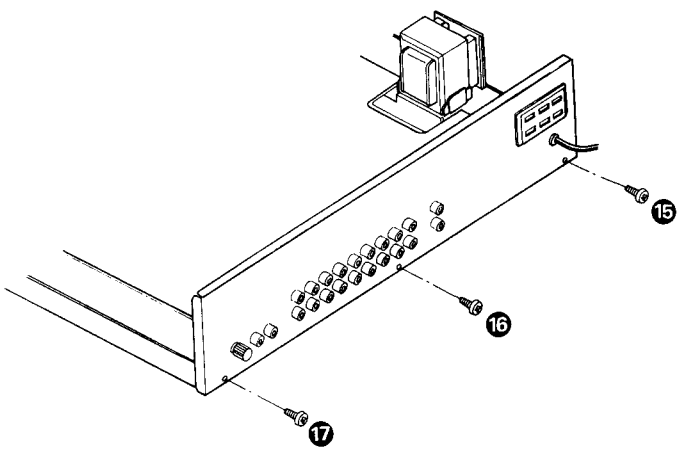


How to check the main P.C.B.

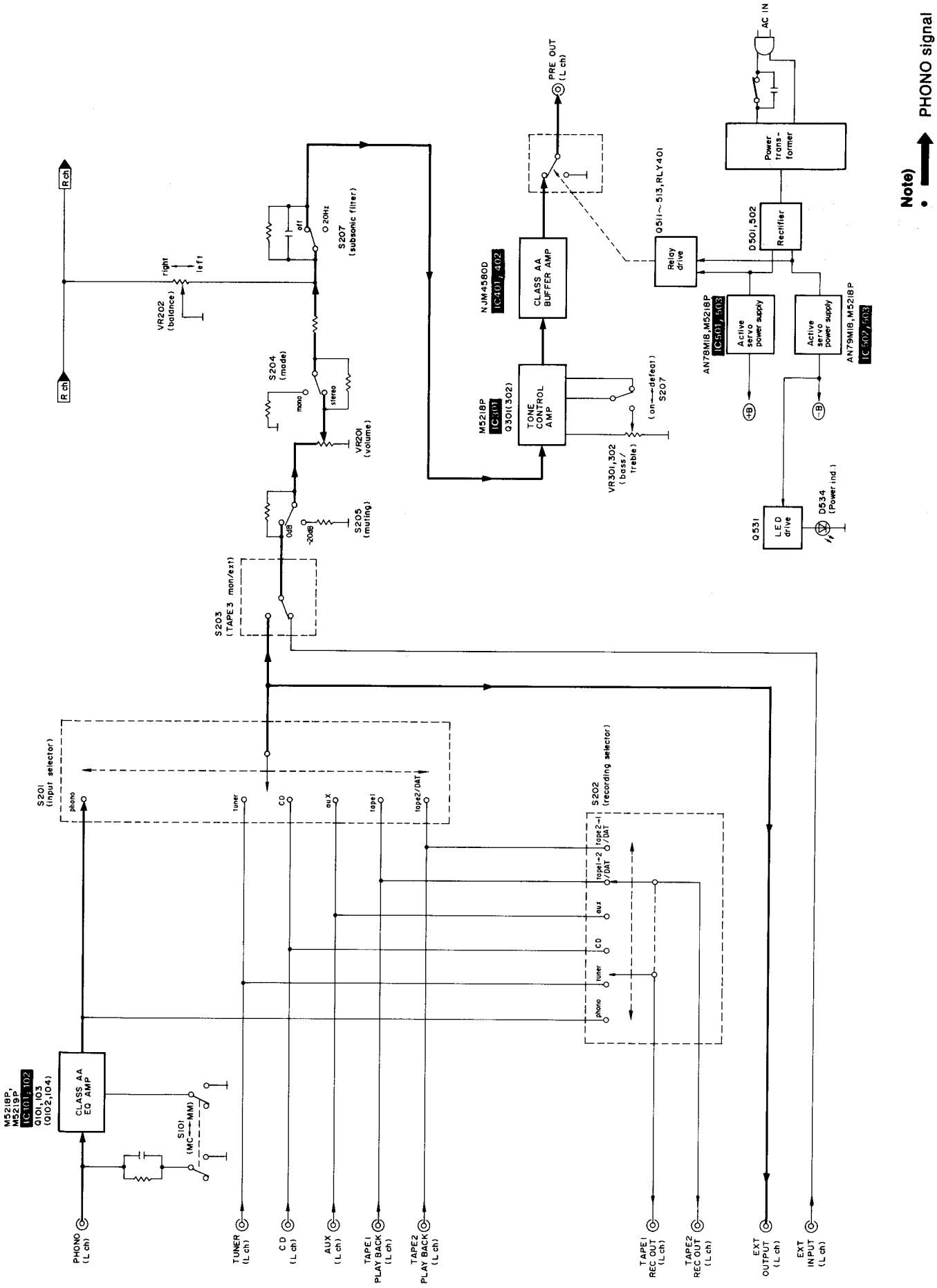
1. Remove the 5 screws (❶~❺) in above figure.
2. Remove the 3 knobs (❻~❽) and 3 nuts (❾~⓫).
3. Remove the 6 screws (⓬~⓱).
4. Pull out the front panel in the direction of the arrow Ⓐ.
5. Remove the bottom chassis in the direction of the arrow Ⓑ.
6. Reinstall the front panel to the main P.C.B.
7. Reinstall the 3 knobs and 3 nuts to the front panel.







■ BLOCK DIAGRAM



■ SCHEMATIC DIAGRAM (Parts list on pages 19~22.)

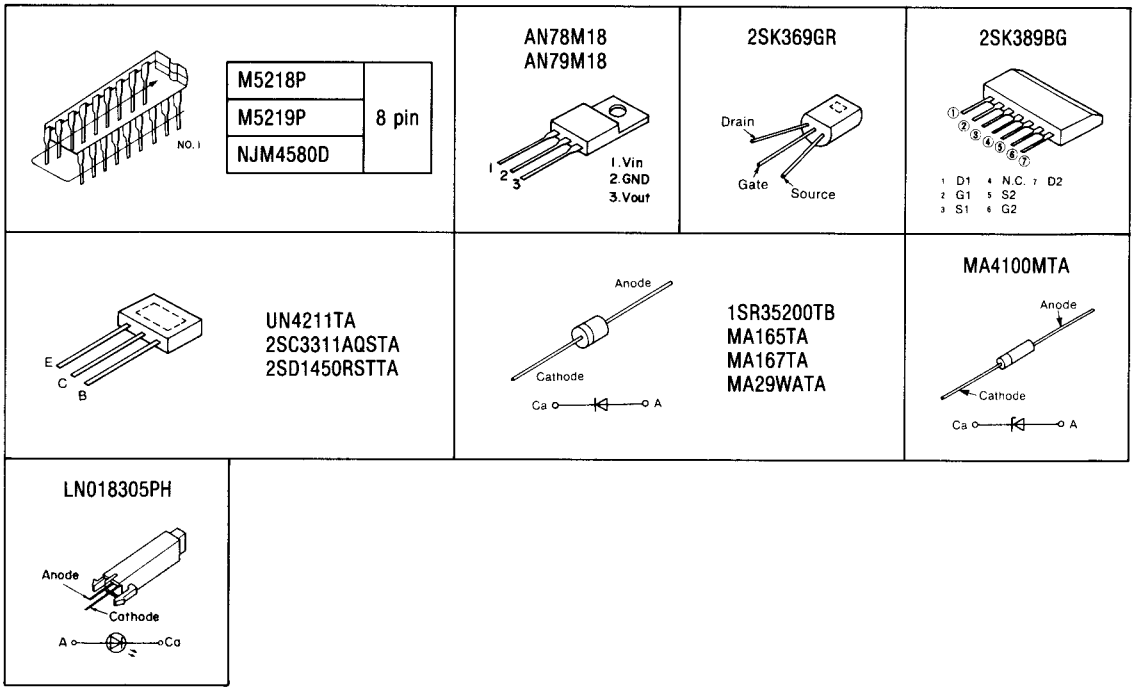
(This schematic diagram may be modified at any time with the development of new technology.)

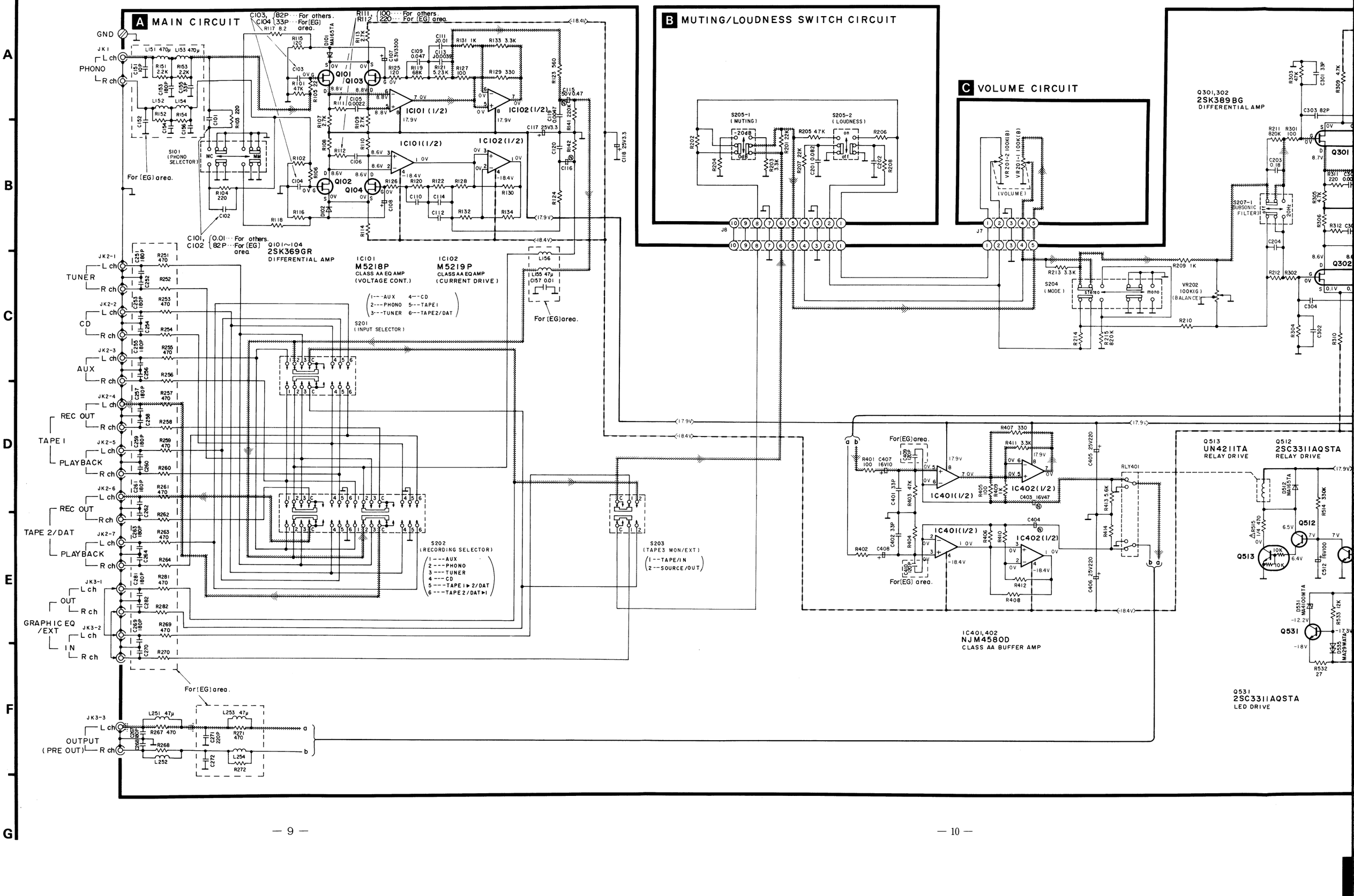
Notes:

- **S1** : Power switch in "**on**" position.
- **S2** : Voltage selector switch (For [EB, GC, GL] areas.)
- **S101** : Phono cartridge selector
- **S201** : Input selector
- **S203** : Tape 3 monitor/external switch
- **S204** : Mode selector
- **S205** : Audio muting switch
- **S206** : Loudness switch
- **S207** : Subsonic filter switch
- **S301** : Tone control switch

- Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- Phono signal line (Lch)
  Positive and Negative voltage lines
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use ony manufacturer's specified parts.

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES




A MAIN CIRCUIT
B MUTING/LOUDNESS SWITCH CIRCUIT
C VOLUME CIRCUIT
GND
PHONO
L ch
R ch
S101 (PHONO SELECTOR)
For (EG) area.
C101, C102 0.01 ··· For others. 82P ··· For (EG) area.
Q101~104 2SK369GR DIFFERENTIAL AMP
C103, C104 82P ··· For others. 33P ··· For (EG) area.
R111, R112 100 ··· For others. 220 ··· For (EG) area.
Q101 Q103 Q102 Q104
IC101(1/2)
IC102(1/2)
IC101 M5218P CLASS AA EQ AMP (VOLTAGE CONT.)
IC102 M5219P CLASS AA EQ AMP (CURRENT DRIVE)
S201 (INPUT SELECTOR)
1---AUX 4---CD
2---PHONO 5---TAPE1
3---TUNER 6---TAPE2/DAT
TUNER
CD
AUX
REC OUT
TAPE 1
PLAYBACK
TAPE 2/DAT
GRAPHIC EQ /EXT
OUT
IN
S202 (RECORDING SELECTOR)
1---AUX
2---PHONO
3---TUNER
4---CD
5---TAPE1 ▶ 2/DAT
6---TAPE2/DAT ▶1
S203 (TAPE3 MON/EXT)
1---TAPE/IN
2---SOURCE/OUT
OUTPUT (PRE OUT)
S205-1 (MUTING)
S205-2 (LOUDNESS)
-20dB
-0dB
on
off
S207-1 SUBSONIC FILTER
S204 (MODE)
stereo
mono
VR201-1 100K(B)
VR201-2 100K(B)
(VOLUME)
VR202 100K(G) (BALANCE)
Q301,302 2SK389BG DIFFERENTIAL AMP
Q301
Q302
IC401,402 NJM4580D CLASS AA BUFFER AMP
IC401(1/2)
IC402(1/2)
Q513 UN4211TA RELAY DRIVE
Q512 2SC3311AQSTA RELAY DRIVE
Q531 2SC3311AQSTA LED DRIVE
RLY401

9 10 11 12 13 14 15 16 17 18 19

Q301,302
2SK389BG
DIFFERENTIAL AMP

Q301

Q302

IC301 (1/2)

IC301(1/2)

IC301
M5218P
TONE AMP

S207-1
SUBSONIC
FILTER

S207-2
(TONE)

VR202
100KIG)
(BALANCE)

Q513
UN4211TA
RELAY DRIVE

Q512
2SC3311AQSTA
RELAY DRIVE

Q511
2SD1450RSTTA
SWITCHING

IC501
AN78MI8
REGULATOR

Q531
2SC3311AQSTA
LED DRIVE

IC503
M5218P
STABILIZER

IC502
AN79MI8
REGULATOR

D LED CIRCUIT

E POWER
SWITCH CIRCUIT

For other.
For (EG) area.

AC 20V

Power Source For [EB,GC,GL] areas.

For (GC) area.

(SWITCHED)
AC OUTLET
(UNSWITCHED)

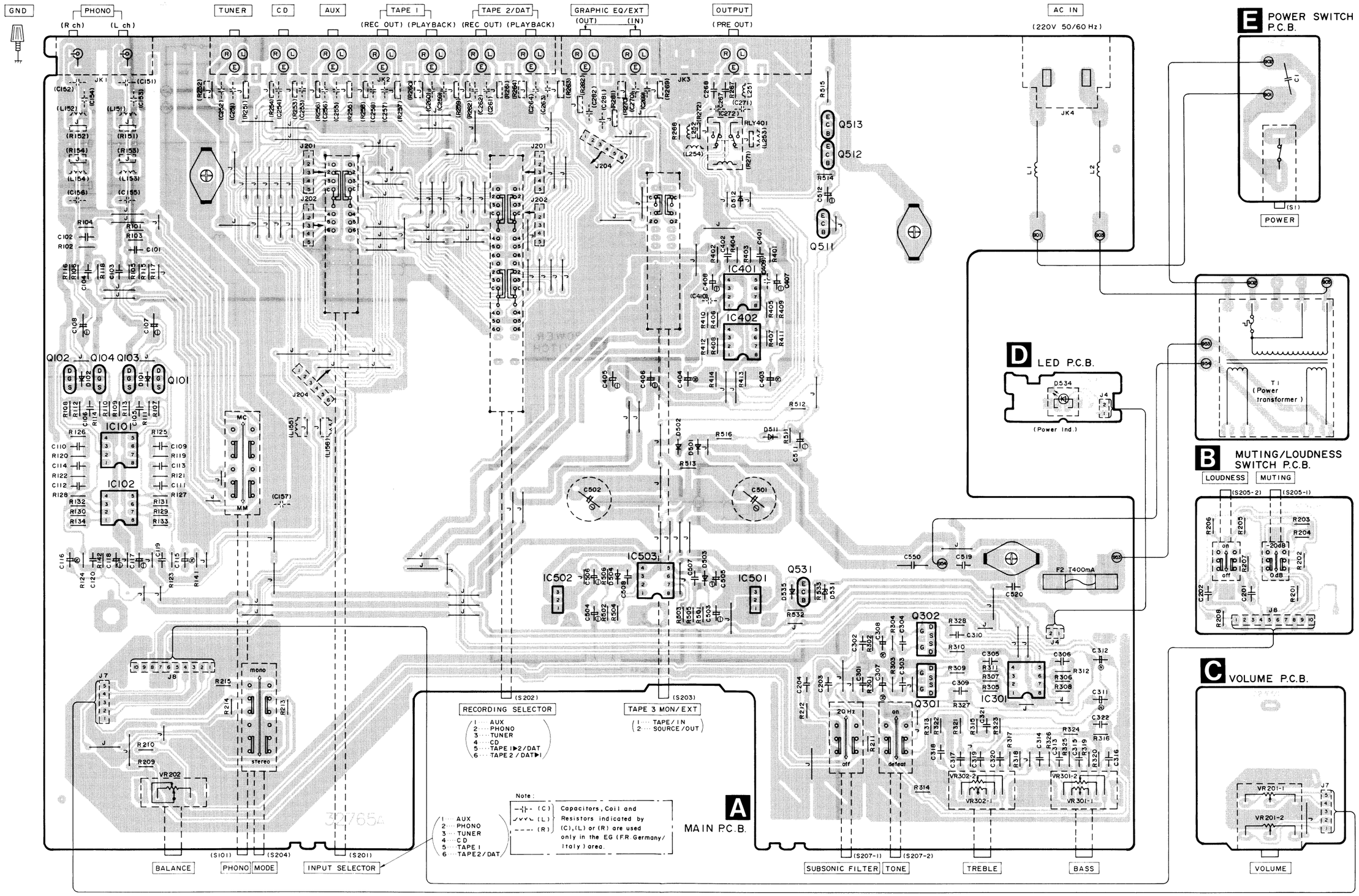
AC 110/127/220/240V
(50/60Hz)

For [EB,GL] areas.

AC 110/127/220/240V
(50/60Hz)

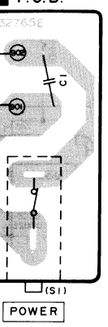
AC 220V
(50/60Hz)

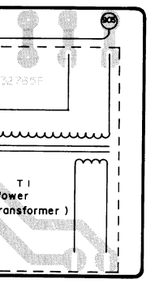
■ PRINTED CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



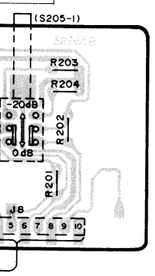
9 10 11 12 13 14

POWER SWITCH P.C.B.

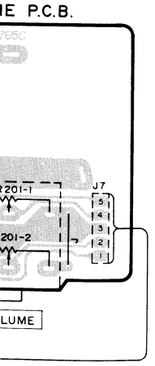




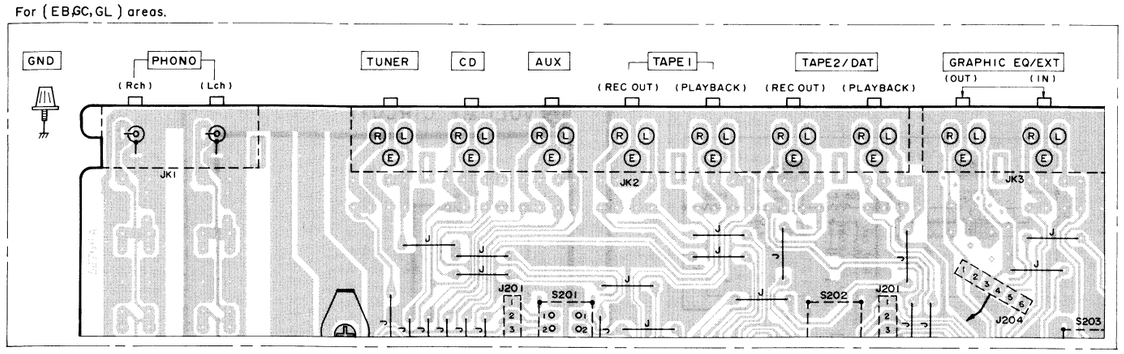
NG/LOUDNESS CH P.C.B.



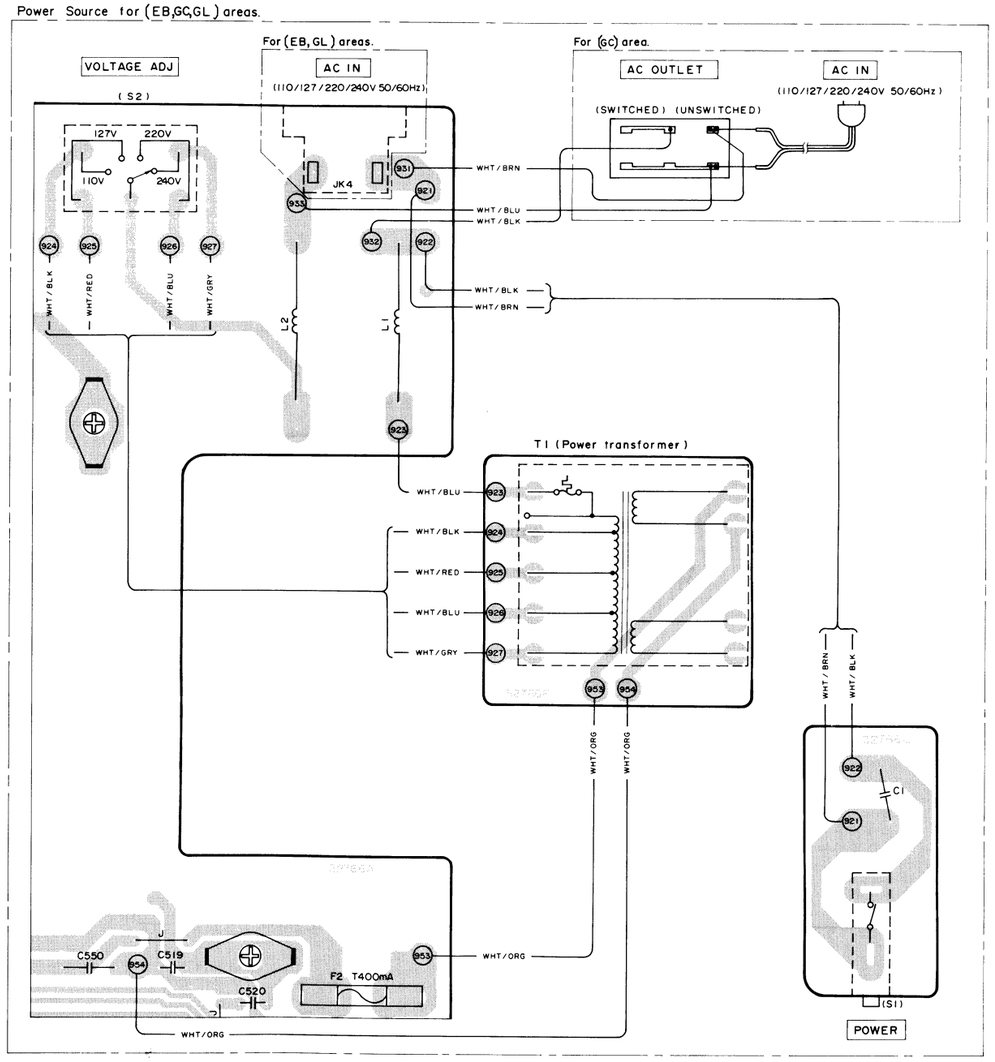
E P.C.B.



For (EB,GC,GL) areas.



Power Source for (EB,GC,GL) areas.



■ REPLACEMENT PARTS LIST

Notes : * Important safety notice:
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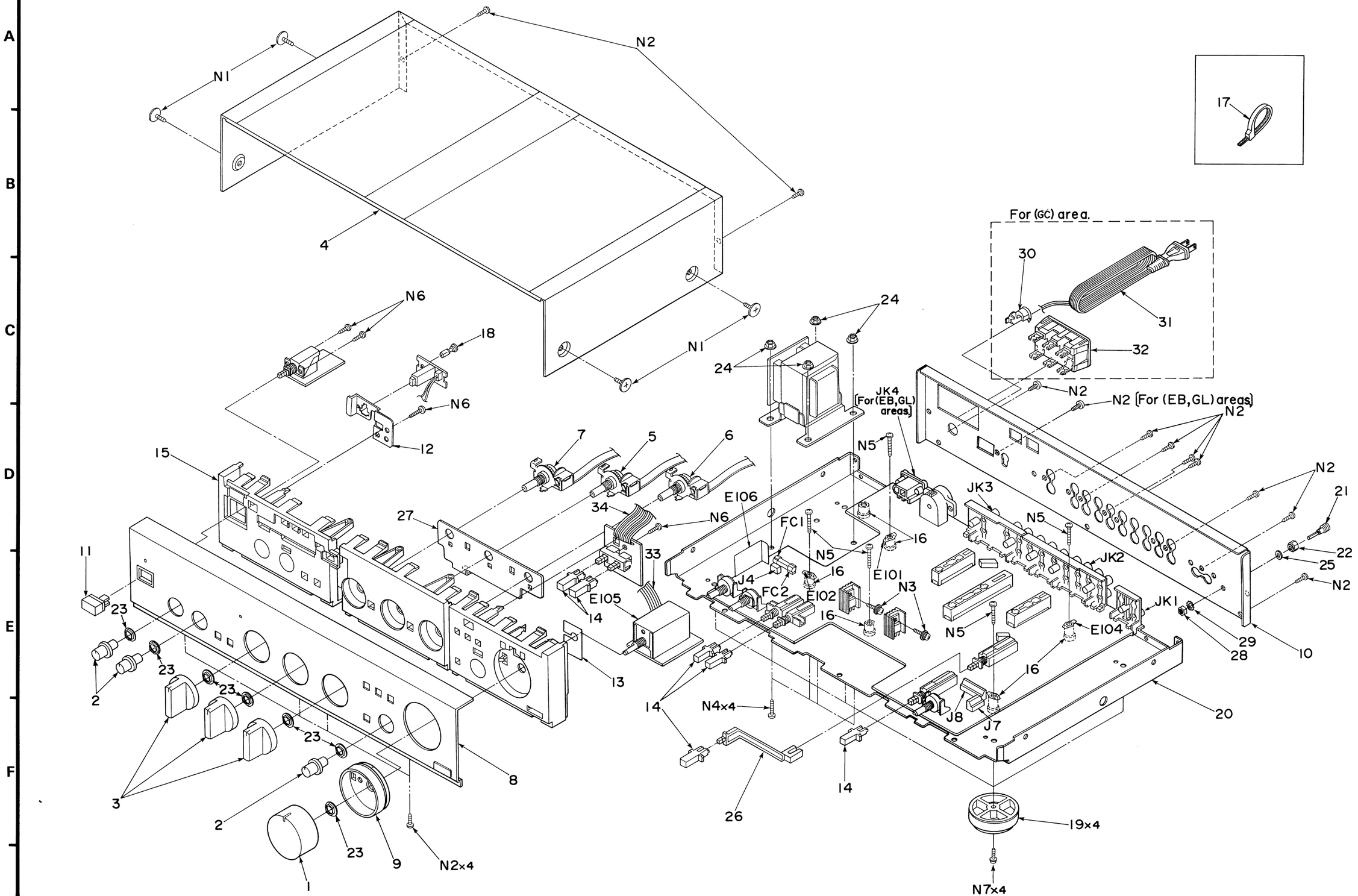
Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RGW0017	KNOB, VOLUME	
2	RGW0018	KNOB, TONE	
3	RGW0019	KNOB, SELECTOR	
4	SKC2190K99	CABINET	
5	ESA33292B	REC SELECTOR	
6	ESA33293B	INPUT SELECTOR	
7	ESA33294B	TAPE3 SELECTOR	
8	RGG0022	FRONT PANEL ASS'Y	
9	RGK0079	ORNAMENT, VOLUME	
10	RGR0015A-A	REAR PANEL	(E)
10	RGR0015A-B	REAR PANEL	(EG)
10	RGR0015B-A	REAR PANEL	(EB)
10	RGR0015C-A	REAR PANEL	(GC)
10	RGR0042	REAR PANEL ASS'Y	(GL)
11	RGU0030	BUTTON, POWER	
12	RMQ0024	BRACKET, LED	
13	RSC0041	SHIELD PLATE	
14	SBC719-1	BUTTON, CONTROL	
15	SGXUA40	GRILLE ASS'Y	
16	SHE181	P.C.B SUPPORT	
17	SHR301	CLAMPER	
18	SHR415	LATCH	
19	SKL306	FOOT	
20	SKUUA40	CHASSIS ASS'Y	
21	SNEA204-1S	EARTH TERMINAL	
22	SNE4017-1	EARTH TERMINAL	
23	SNE4021-1	NUT	
24	SNE452S	NUT	
25	SNTA421-1	EARTH TERMINAL	
26	SUB153	CONNECTION ROD	
27	SUW3115	BRACKET, SELECTOR	
28	XNG4B	NUT	
29	XWC4B	WASHER	
30	SHR127	BUSHING	(GC)
31	SJA121	POWER CORD	(GC)
32	SJS601-3	AC OUTLET	(GC)
33	RWJ390580KQ	FLAT CABLE	
34	RWJ1810100KQ	FLAT CABLE	
		SCREWS	
N1	SNE2129-3	SCREW	
N2	XTBS3+8JFZ1	SCREW	
N3	XYN3+F8	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
N4	XTB3+10F	SCREW	
N5	XTB3+20J	SCREW	
N6	XTB3+8G	SCREW	
N7	XTW3+8T	SCREW	
		PACKING MATERIAL	
P1	RPG0117	CARTON BOX	
P2	RPQ0049	ACCESSORY BOX	
P3	SPS4459-7	PAD (LEFT)	
P4	SPS4460-5	PAD (RIGHT)	
P5	SPS4613-1	PAD (UPPER)	
P6	XZB10X20A02	PROTECTION BAG	(GC)
P7	SPB1065	PROTECTION BAG	(GC)
		ACCESSORIES	
A1	RQF0102	INSTRUCTION MANUAL	(E)
A1	RQF0103	INSTRUCTION MANUAL	(EG)
A1	RQF0105	INSTRUCTION MANUAL	(EB)
A1	RQF0118	INSTRUCTION MANUAL	(GC)
A1	RQF0228	INSTRUCTION MANUAL	(GL)
A2	SFDAC05E03	POWER CORD	(E, EG) ⚠
A2	SJA193	POWER CORD	(EB) ⚠
A2	SJA173	POWER CORD	(GL) ⚠
A3	SJPD18	PIN CORD	
A4	SJP9215	AC PLUG ADAPTOR	(GC) ⚠

■ EXPLODED VIEW



■ REPLACEMENT PARTS LIST

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Ref. No.	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS	
IC101	M5218P	IC, CLASS AA EQ AMP	
IC102	M5219P	IC, CLASS AA EQ AMP	
IC301	M5218P	IC, TONE AMP	
IC401, 402	NJM4580D	IC, CLASS AA BUFFER AMP	
IC501	AN78M18	IC, REGULATOR	⚠
IC502	AN79M18	IC, REGULATOR	⚠
IC503	M5218P	IC, STABILIZER	
		TRANSISTORS	
Q101～104	2SK369GR	TRANSISTOR	
Q301, 302	2SK389BG	TRANSISTOR	
Q511	2SD1450RSTTA	TRANSISTOR	
Q512	2SC3311AQSTA	TRANSISTOR	
Q513	UN4211TA	TRANSISTOR	
Q531	2SC3311AQSTA	TRANSISTOR	
		DIODES	
D101, 102	MA165TA	DIODE	
D501, 502	1SR35200TB	DIODE	⚠
D503, 504	MA165TA	DIODE	
D511	MA167TA	DIODE	
D512	MA165TA	DIODE	
D531	MA4100MTA	DIODE	
D534	LN018305PH	DIODE	
D535	MA29WATA	DIODE	
		VARIABLE RESISTORS	
VR201	EWF3KA024B15	VR, VOLUME	
VR202	EWHFNAF20G15	VR, BALANCE	
VR301	EWCSSAF20C15	VR, BASS	
VR302	EWCSSAF20C15	VR, TREBLE	
		COILS	
L1, L2	SLQX400-D	COIL	⚠
L151, 152	SLQW471-1P3	COIL	(EG)
L153, 154	SLQW471-1P3	COIL	(EG)
L155, 156	ELEPK470KA	COIL	(EG)
L251, 252	ELEPK470KA	COIL	
L253, 254	ELEPK470KA	COIL	(EG)

Ref. No.	Part No.	Part Name & Description	Remarks
		FUSE	
F2	XBA2C04TB0	FUSE (250V, T400mA)	⚠
		SWITCHES	
S1	ESB99714V	SW, POWER	⚠
S2	SSR187-1	SW, VOLTAGE ADJ.	<EB, GC, GL> ⚠
S101	SSH1235	SW, PHONO SELECTOR	
S201	ESA26132	SW, INPUT SELECTOR	
S202	ESA26134	SW, RECORDING SELECTOR	
S203	ESA26133	SW, TAPE3 MON/EXT	
S204	SSH1236	SW, MODE	
S205	SSH2125	SW, MUTING/LOUDNESS	
S207	SSH2135	SW, SUBSONIC FILTER/TONE	
		JACKS	
J4	SJT3213	CONNECTOR (2P)	
J7	SJT30543-V	CONNECTOR (5P)	
J8	SJT31043-V	CONNECTOR (10P)	
JK1	SJF3057-9A	TERMINAL BOARD	
JK2	SJF3062-8A	TERMINAL BOARD	
JK3	SJF3062-25A	TERMINAL BOARD	
JK4	SJSD16	AC INLET	(EB, GL) ⚠
		SHIELD PLATES	
E101, 102	SNE1004	EARTH TERMINAL	
E104	SNE1004	EARTH TERMINAL	
E105	SMC1220-1	SHIELD PLATE	
E106	SMC949	SHIELD PLATE	
		FUSE HOLDERS	
FC1, FC2	SJT390	FUSE HOLDER	
		RELAY	
RLY401	SFDYG5A237P	RELAY	
		POWER TRANSFORMER	
T1	SLT5L292-W	POWER TRANSFORMER	(E, EG) ⚠
T1	SLT5L293-W	POWER TRANSFORMER	(EB, GC, GL) ⚠

■ RESISTORS & CAPACITORS

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Numbering System For Resistors

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System For Capacitors

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001μF)	Tolerance	Unique
ECEA	50	M	330	
Type	Voltage (50V)	Characteristics	Value (33μF)	

● Capacity values are in microfarads (μF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
● Resistance values are in ohms (Ω), unless specified otherwise, 1K = 1,000Ω, 1M = 1,000kΩ

Resistor Type		Wattage		Tolerance
ERD	: Carbon	10 : 1/8W	12 : 1/2W	J : ±5%
ERG	: Metal Oxide	14 : 1/4W	25 : 1/4W	F : ±1%
ERQ	: Fuse Type Metal	1A : 1W	18 : 1/8W	G : ±2%
ERX	: Metal Film	S2 : 1/4W	S1 : 1/2W	J : ±5%
ERD L	: Carbon (chip)	2F : 1/4W	50 : 1/2W	K : ±10%
ERO K	: Metal Film (chip)	2A : 2W	3A : 3W	M : ±20%
ERC	: Solid	6G : 1/10W	8G : 1/8W	
ERF	: Incombustible Box-Shaped			
ERM	: Wire-Wound			
RRJ	: Chip Resistor			
ERJ	: Chip Resistor			

Capacitor Type		Voltage		Tolerance
ECE	: Electrolytic	0J : 6.3V	1A : 10V	K : ±10%
ECCD	: Ceramic	1C : 16V	1E : 25V	M : ±20%
ECKD	: Ceramic Capacitor	1H : 50V	1V : 35V	Z : +80 % −20
ECQM	: Polyester	50 : 50V	05 : 50V	J : ±5%
ECQP	: Polypropylene	2H : 500V	2A : 100V	G : ±2%
ECG	: Ceramic	1 : 100V	1J : 63V	F : ±1%
ECEA N	: Non Polar Electrolytic	KC : 400V AC		C : ±0.25pF
QCU	: Ceramic (Chip Type)	KC : 125V AC (UL)		D : ±0.5pF
ECUX	: Ceramic (Chip Type)			
ECF	: Semiconductor			
EECW	: Liquid electrolyte double layer capacitor			

Ref. No.	Part No.	Part Name & Description	Remarks
		RESISTORS	
R101, 102	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R103, 104	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R105, 106	ERDS2TJ220T	C. RESISTOR 1/4W 22	
R107～110	ERDAS3G272T	C. RESISTOR 1/4W 2.7K	
R111, 112	ERDS2TJ101T	C. RESISTOR 1/4W 100	(E, EB, GC, GL)
R111, 112	ERDS2TJ221T	C. RESISTOR 1/4W 220	(EG)
R113, 114	ERDAS3G272T	C. RESISTOR 1/4W 2.7K	
R115, 116	ERDS2TJ121T	C. RESISTOR 1/4W 120	
R117, 118	ERDS2TJ8R2T	C. RESISTOR 1/4W 8.2	
R119, 120	EROS2TKG6802	M. RESISTOR 1/4W 68K	
R121, 122	EROS2TKF5231	M. RESISTOR 1/4W 5.23K	
R123, 124	ERDS2TJ561T	C. RESISTOR 1/4W 560	
R125, 126	ERDS2TJ121T	C. RESISTOR 1/4W 120	
R127, 128	ERDS2TJ101T	C. RESISTOR 1/4W 100	
R129, 130	ERDS2TJ331T	C. RESISTOR 1/4W 330	
R131, 132	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R133, 134	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R141, 142	ERDS2TJ224T	C. RESISTOR 1/4W 220K	
R151, 152	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K	(EG)
R153, 154	ERDS2TJ222T	C. RESISTOR 1/4W 2.2K	(EG)
R201, 202	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R203, 204	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	

Ref. No.	Part No.	Part Name & Description	Remarks
R205, 206	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R207, 208	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R209, 210	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R211, 212	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
R213, 214	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R215	ERDS2TJ824T	C. RESISTOR 1/4W 820K	
R251, 252	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R253, 254	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R255, 256	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R257, 258	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R259, 260	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R261, 262	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R263, 264	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R267, 268	ERDS2TJ471T	C. RESISTOR 1/4W 470	
R269, 270	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R271, 272	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R281, 282	ERDS2TJ471T	C. RESISTOR 1/4W 470	(EG)
R301, 302	ERDS2TJ101T	C. RESISTOR 1/4W 100	
R303, 304	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R305 310	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R311, 312	ERDS2TJ221T	C. RESISTOR 1/4W 220	
R313, 314	ERDAS3G821T	C. RESISTOR 1/4W 820	
R315, 316	ERDAS3G472T	C. RESISTOR 1/4W 4.7K	
R317, 318	ERDS2TJ392T	C. RESISTOR 1/4W 3.9K	
R319, 320	ERDS2TJ223T	C. RESISTOR 1/4W 22K	
R321, 322	ERDS2TJ102T	C. RESISTOR 1/4W 1K	
R323, 324	ERDS2TJ562T	C. RESISTOR 1/4W 5.6K	
R325, 326	ERDS2TJ223T	C. RESISTOR 1/4W 22K	

Ref. No.	Part No.	Part Name & Description	Remarks
R327, 328	ERDS2TJ224T	C. RESISTOR 1/4W 220K	
R401, 402	ERDAS3G101T	C. RESISTOR 1/4W 100	
R403, 404	ERDS2TJ473T	C. RESISTOR 1/4W 47K	
R405, 406	ERDAS3G101T	C. RESISTOR 1/4W 100	
R407, 408	ERDAS3G331T	C. RESISTOR 1/4W 330	
R409, 410	ERDAS3G102T	C. RESISTOR 1/4W 1K	
R411, 412	ERDAS3G332T	C. RESISTOR 1/4W 3.3K	
R413, 414	ERDS2TJ562T	C. RESISTOR 1/4W 5.6K	
R501, 502	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	
R503	ERDS2TJ333T	C. RESISTOR 1/4W 33K	
R504	ERDS2TJ153T	C. RESISTOR 1/4W 15K	
R505, 506	ERDS2TJ330T	C. RESISTOR 1/4W 33	
R511	ERDS2TJ123T	C. RESISTOR 1/4W 12K	
R512	ERDS2TJ472T	C. RESISTOR 1/4W 4.7K	
R513	ERDS2TJ333T	C. RESISTOR 1/4W 33K	⚠
R514	ERDS2TJ334T	C. RESISTOR 1/4W 330K	
R515	ERD25FJ471P	C. RESISTOR 1/4W 470	⚠
R516	ERDS2TJ332T	C. RESISTOR 1/4W 3.3K	⚠
R532	ERDS2TJ270T	C. RESISTOR 1/4W 27	
R533	ERDS2TJ123T	C. RESISTOR 1/4W 12K	
		CAPACITORS	
C1	ECKWNS103ZVS	C. CAPACITOR 250V 0.01U	⚠
C101, 102	ECQM1H103KV3	P. CAPACITOR 50V 0.01U	(E, EB, GC, GL)
C101, 102	ECCT1H820K	C. CAPACITOR 50V 82P	(EG)
C103, 104	ECCT1H820K	C. CAPACITOR 50V 82P	(E, EB, GC, GL)
C103, 104	ECCT1H330K	C. CAPACITOR 50V 33P	(EG)
C105, 106	ECKT1H222MD	C. CAPACITOR 50V 2200P	
C107, 108	ECEA0JPX332E	E. CAPACITOR 6.3V 3300U	
C109, 110	ECQV1H473JZ3	P. CAPACITOR 50V 0.047U	
C111, 112	ECQB1H103JZ3	P. CAPACITOR 50V 0.01U	
C113, 114	ECQM1H392KV3	P. CAPACITOR 50V 3900P	
C115, 116	ECEA1HBZ4R7B	E. CAPACITOR 50V 0.47	
C117, 118	ECEA1EK3R3B	E. CAPACITOR 25V 3.3U	
C119, 120	ECQM1H472KV3	P. CAPACITOR 50V 4700P	
C151, 152	ECCT1H100K	C. CAPACITOR 50V 10P	(EG)
C153, 154	RCBS1H181KBY	C. CAPACITOR 50V 180P	(EG)
C155, 156	ECCT1H330K	C. CAPACITOR 50V 33P	(EG)
C157	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	(EG)
C201, 202	ECQV1H823JZ3	P. CAPACITOR 50V 0.082U	
C203, 204	ECQV1H184JZ3	P. CAPACITOR 50V 0.18U	
C251, 252	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C253, 254	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C255, 256	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C257, 258	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C259, 260	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C261, 262	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C263, 264	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C267, 268	ECCT1H181K	C. CAPACITOR 50V 180P	
C269, 270	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C271, 272	RCBS1H221KBY	C. CAPACITOR 50V 220P	(EG)

Ref. No.	Part No.	Part Name & Description	Remarks
C281, 282	ECCT1H181K	C. CAPACITOR 50V 180P	(EG)
C301, 302	ECCT1H330K	C. CAPACITOR 50V 33P	
C303, 304	ECCT1H820K	C. CAPACITOR 50V 82P	
C305, 306	ECKT1H222MD	C. CAPACITOR 50V 2200P	
C307, 308	ECEA1HBZ2R2B	E. CAPACITOR 50V 2.2U	
C309, 310	ECCT1H390K	C. CAPACITOR 50V 39P	
C311, 312	ECEA1CBZ470B	E. CAPACITOR 16V 47U	
C313, 314	ECQV1H823JZ3	P. CAPACITOR 50V 0.082U	
C315, 316	ECQB1H153JZ3	P. CAPACITOR 50V 0.015U	
C317, 318	ECQB1H183JZ3	P. CAPACITOR 50V 0.018U	
C319, 320	ECQB1H182JZ3	P. CAPACITOR 50V 1800P	
C321, 322	ECCT1H101K	C. CAPACITOR 50V 100P	
C401, 402	ECCT1H330K	C. CAPACITOR 50V 33P	
C403, 404	ECEA1CBZ470B	E. CAPACITOR 16V 47U	
C405, 406	ECEA1EU221B	E. CAPACITOR 25V 220U	
C407, 408	ECEA1CPX100B	E. CAPACITOR 16V 10U	
C409, 410	RCBS1H121KBY	C. CAPACITOR 50V 120P	(EG)
C501, 502	ECES1VV332RY	E. CAPACITOR 35V 3300U	⚠
C503, 504	ECEA1CK100B	E. CAPACITOR 16V 10U	
C505, 506	ECEA1EK3R3B	E. CAPACITOR 25V 3.3U	
C507, 508	ECQV1H104JZ3	P. CAPACITOR 50V 0.1U	
C511	ECEA1HK4R7B	E. CAPACITOR 50V 4.7U	
C512	ECEA1CU101B	E. CAPACITOR 16V 100U	
C519	ECKT1H103ZF	C. CAPACITOR 50V 0.01U	
C520	ECKT1H102KB	C. CAPACITOR 50V 1000P	
C550	ECKW2H103PE	C. CAPACITOR 500V 0.01U	(E, EB, GC, GL) ⚠
C550	ECQE2104KS	P. CAPACITOR 250V 0.1U	(EG) ⚠

ORDER NO. AD8911291S0
A2

Service Manual

Supplement

Amplifier

SU-A40

Stereo Control Amplifier

Color

(K)... Black Type

Area

Country Code	Area	Color
(P)	U.S.A.	(K)
(PC)	Canada.	
(E)	Continental Europe.	
(EB)	Great Britain.	
(EG)	F.R. Germany/Italy.	
(GC)	Third Region.	
(GL)	Australia.	

Please file and use this supplement manual together with the service manual for Model No. SU-A40, Order No. AD8905152C1 (P, PC areas) or Order No. AD8904098C8 (Other areas).

Note:

- This supplement has been issued to correct an error in the "Replacement Parts List" on page 17 (P, PC areas) and "Replacement Parts List" on Page 16 (Other areas).

CORRECTION

■ REPLACEMENT PARTS LIST

(Page 17 of service manual.. . . . . P, PC areas)
(Page 16 of service manual.. . . . . Other areas)

Ref. No.	Change of Part No.		Part Name & Description	Remarks
	ORIGINAL	→ NEW		
CABINET AND CHASSIS				
33	RWJ390580KQ	**RWJ3905080KQ**	FLAT CABLE	Correction

Technics

Matsushita Services Company
Division of Matsushita Electric Corporation of America
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
San Gabriel Industrial Park
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